



5W AC/DC Converter with OVP Function PM Series



Feature:

- Universal AC input / full arnge
- Protection: short circuit / overload / over voltage
- Ultra-Miniature size, light weight
- Isolation class II
- UL60601-1 / IEC60601-1 / TUV EN60601-1 medical safety approved
- No load power consumption < 0.5W
- Fixed switching frequency at 67KHz
- 3-year warranty

Specification:

Product No.		PM-05-3.3	PM-05-5	PM-05-12	PM-05-15	PM-05-24
Output	DC Voltage	3.3V	5V	12V	15V	24V
	Rated Current	1.25A	1A	0.42A	0.33A	0.23A
	Current Range	0-1.25A	0-1A	0-0.42A	0-0.33A	0-0.23A
	Rated Power	4.125W	5W	5.04W	4.95W	5.52W
	Ripple & Noise Max. Note 2	80mVp-p	80mVp-p	150mVp-p	150mVp-p	240mVp-p
	Voltage Tolerance Note 3	±3.0%	±2.0%	±2.0%	±2.0%	±2.0%
	Line Regulation	±1.0%	±1.0%	±0.5%	±0.5%	±0.5%
	Load Regulation	±1.0%	±1.0%	±1.0%	±1.0%	±0.5%
	Setup, Rise Time	1000ms, 20ms/230VAC, 1000ms, 20ms/115VAC at full load				
	Hold up Time (Typ.)	100ms/230VAC, 24ms/115VAC at full load				
Input	Voltage Range	85-264VAC, 120-370VDC				
	Frequency Range	47-440Hz				
	Efficiency (Typ.)	67%	71%	73%	74%	76%
	AC Current (Typ.)	0.12A/115VAC 0.08A/230VAC				
	Inrush Current (Typ.)	Cold Start 25A/115VAC 45A/230VAC				
Protection	Over Load	Above 105% rated output power Protection type: Hiccup mode, recover automatically				
	Over Voltage	3.8-4.95V	5.75-6.75V	13.8-16.2V	17.25-20.25V	27.6-32.4V
Environment	Working Temp.	-20 - +70°C (refer to output load derating curve)				
	Working Humidity	20 - 90% RH non-condensing				
	Storage Temp. / Humidity	-40 - +85°C, 10 - 95% RH				
	Temp. Coefficient	±0.03% / °C (0 - 50°C)				
	Vibration	10 - 500Hz, 2G 10min./1cycle, period for 60min. each along X,Y,Z axes				



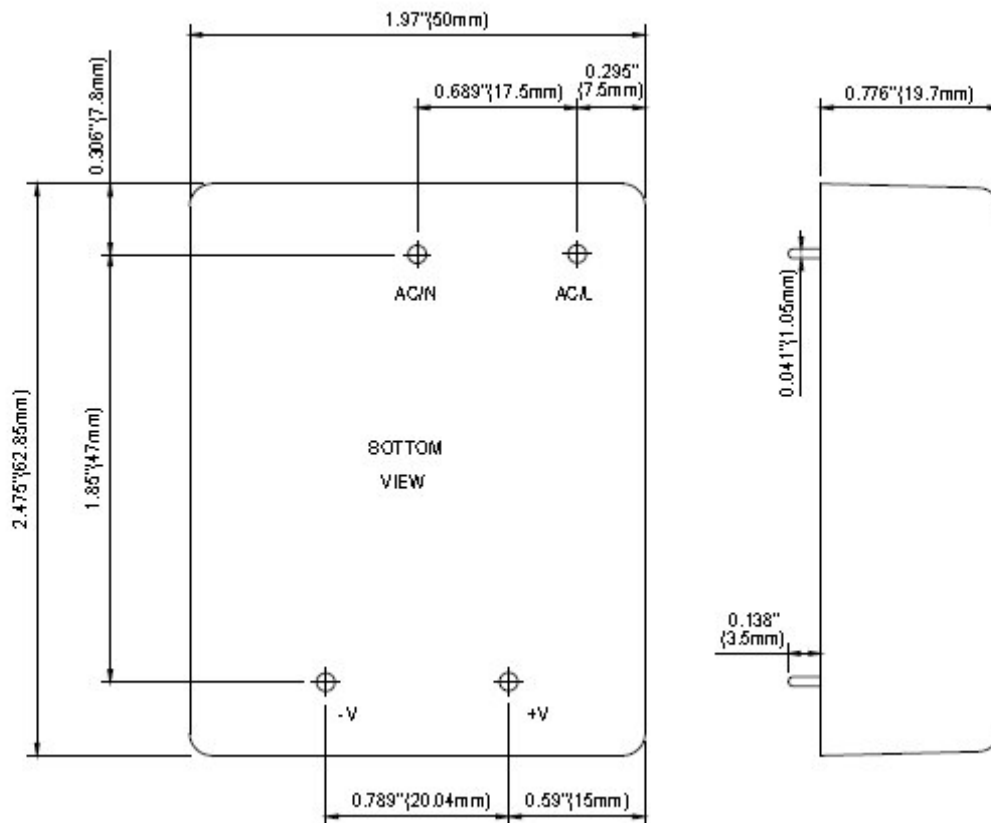
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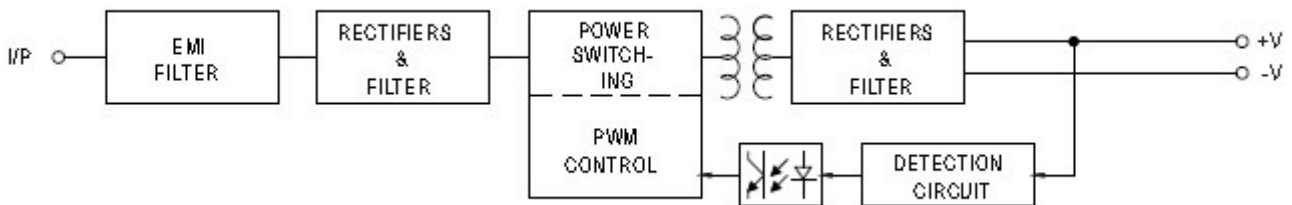


Product No.	PM-05-3.3	PM-05-5	PM-05-12	PM-05-15	PM-05-24
Safety EMC (Note 4)	Safety Standard				
	UL60601-1, TUV EN60601-1 approved				
	Withstand Voltage				
	I/P-O/P: 4KVAC				
	Isolation Resistance				
I/P-O/P: 100M Ohms / 500VDC					
EMI Conduction / Radiation					
Compliance to EM55011(CISPR11), EN55022(CISPR22) Class B					
Harmonic Current					
Compliance to EN61000-3-2, -3					
EMS Immunity					
Compliance to EN61000-4-2,3,4,5,6,8,11, ENV50204, EN55024, EN60601-1-2, EN61204-3, medical level, criteria A					
Others	MTBF				
	1513.4Khrs min. MIL-HDBK-217F(25°C)				
	Dimension				
62.85(L)*50.00(W)*19.70(H)mm					
Packing					
0.085Kg, 120pcs/11.2Kg/0.97CUFT					
Note	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. 2. Ripple & Noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with at 0.1uF & 47uF parallel capacitors. 3. Tolerance: includes set up tolerance, line regulation and load regulation. 4. The power supply is considered a component which will be installed into final equipment. The final equipment must be re-confirmed that is still meets EMC directives. 				

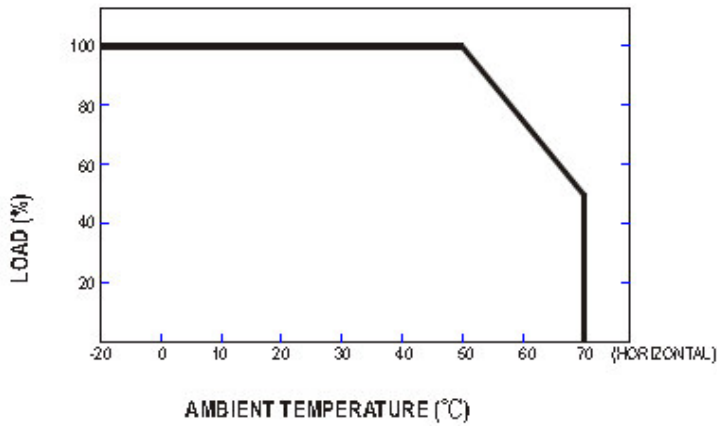
Mechanical: unit: mm



Block Diagram: fosc 67Khz



Derating Curve:



Output Derating vs Input Voltage:

